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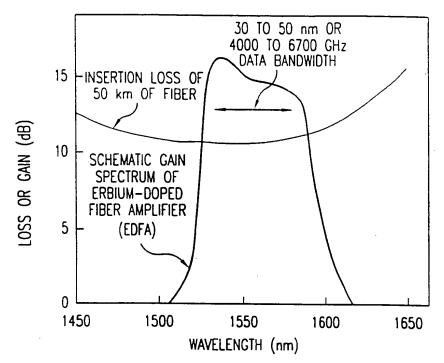


FIG.1 PRIOR ART

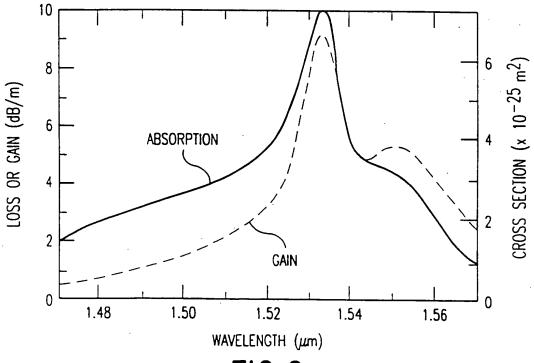


FIG.2
PRIOR ART

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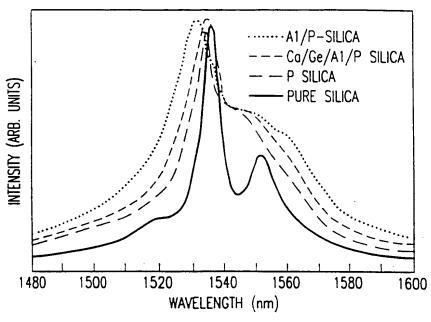


FIG.3a PRIOR ART

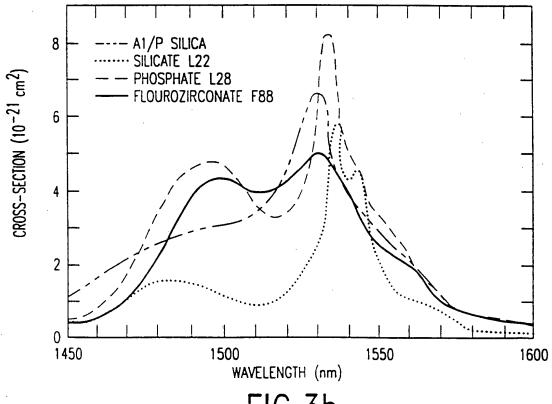
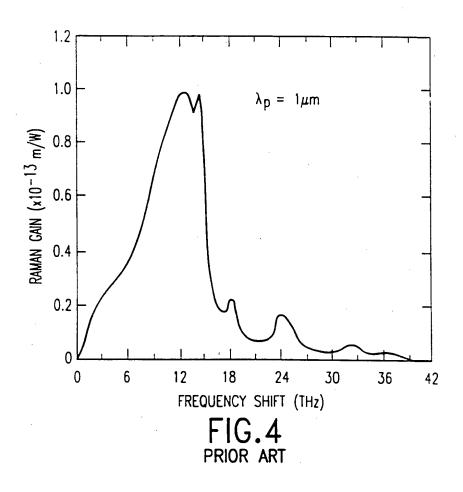
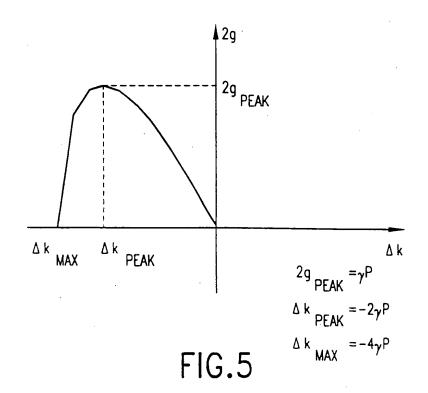


FIG.3b PRIOR ART

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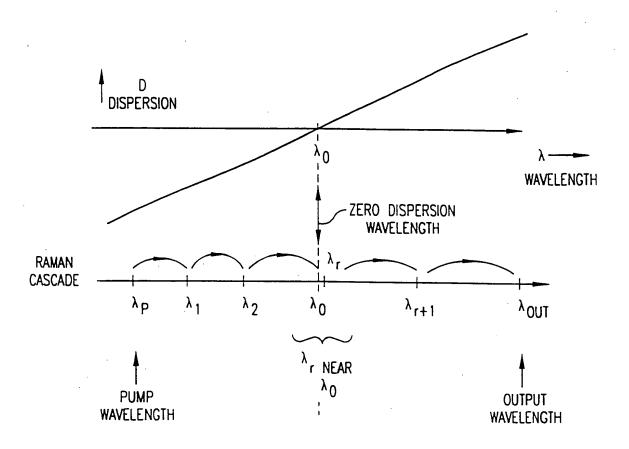
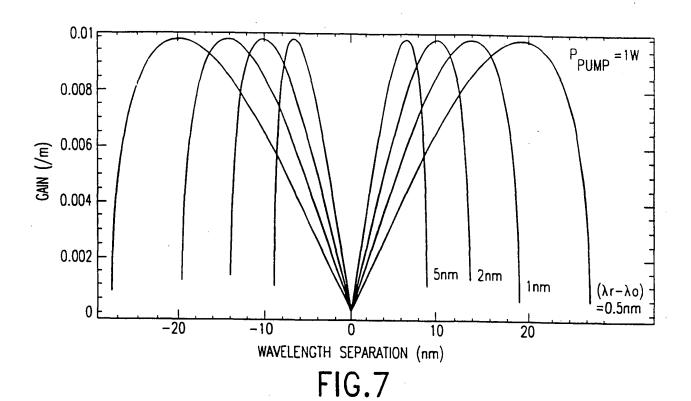
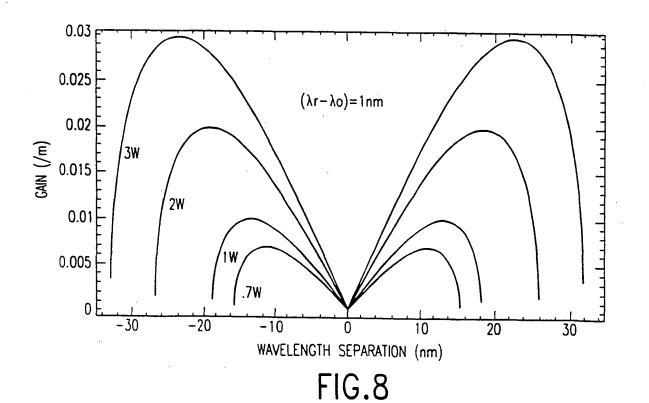


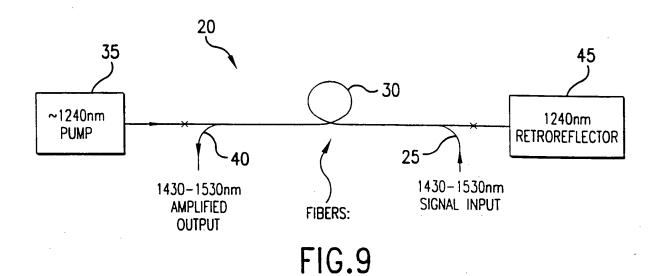
FIG.6

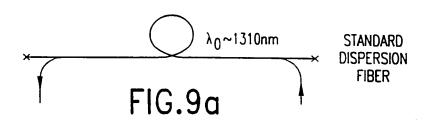
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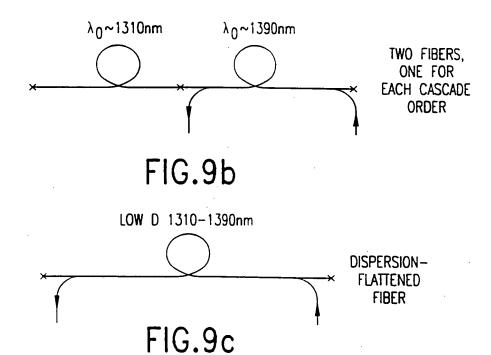




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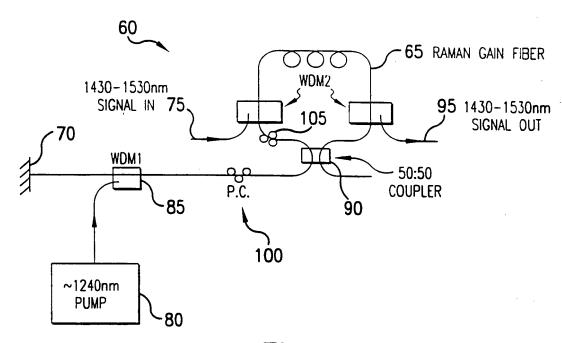


FIG.10

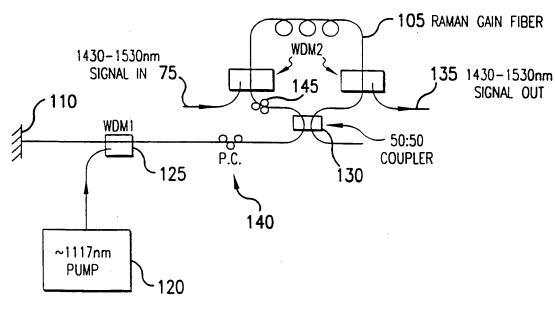
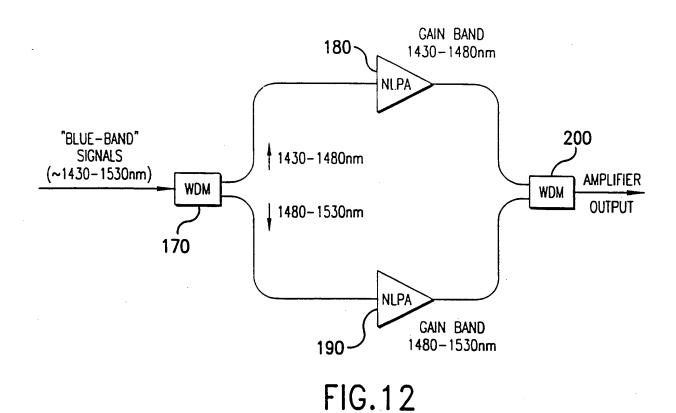
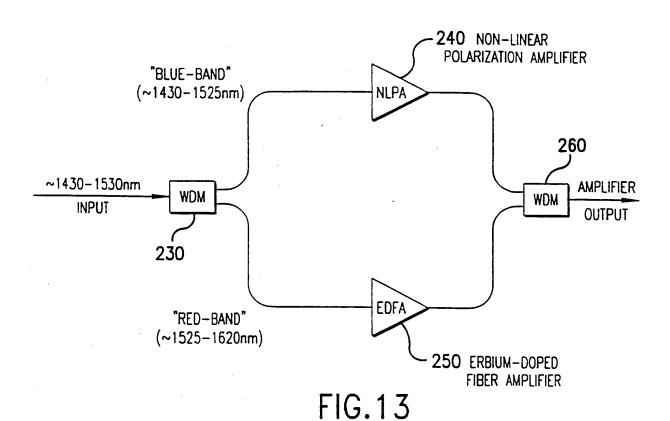
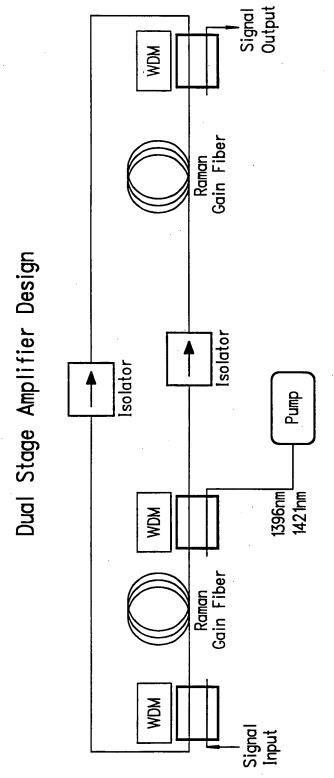


FIG.11

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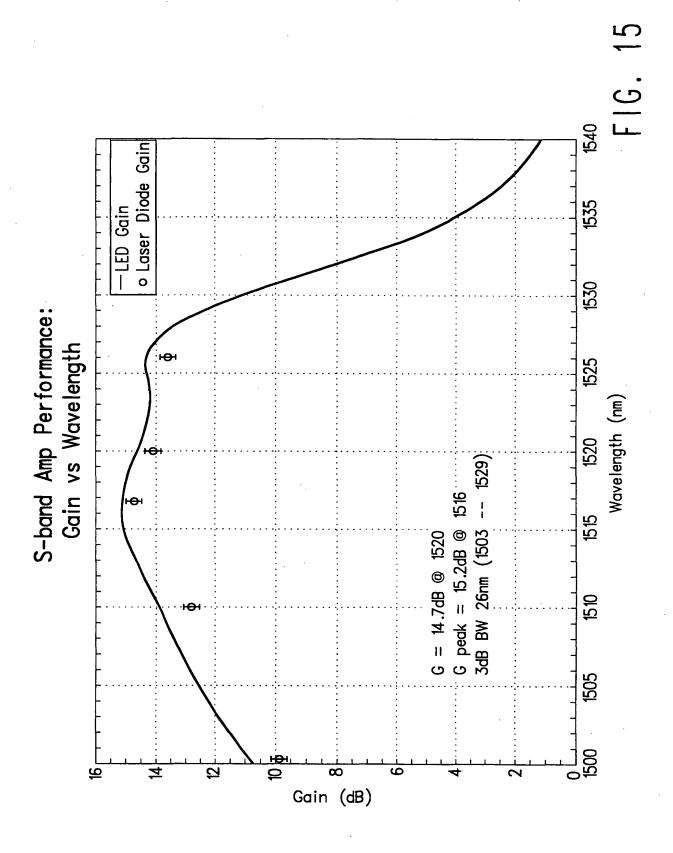


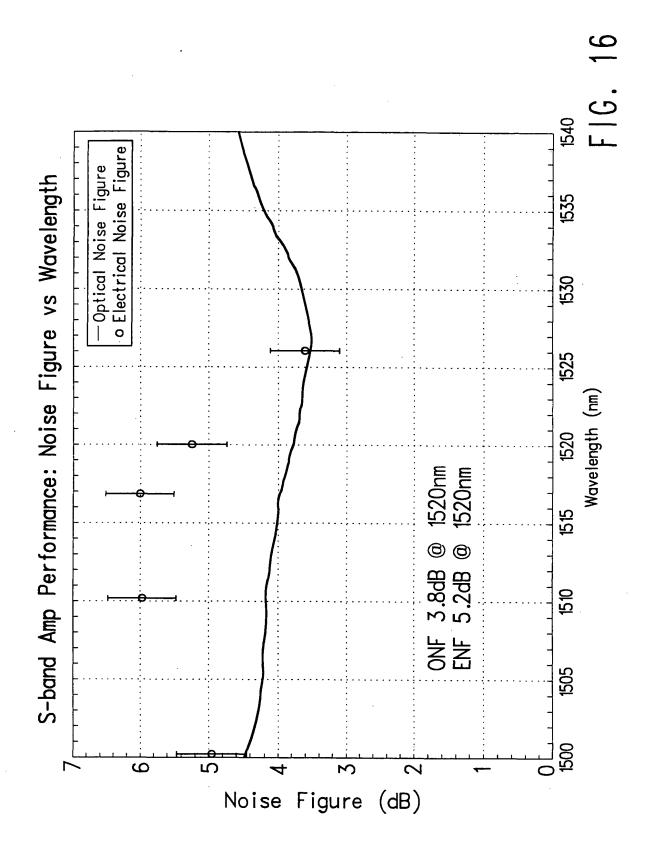
• First stage is a low noise preamp

• Second stage is power amp, depleting pump power

 Isolators reduce multi-path interference (MPI) from Double-Rayleigh scattering

F1G. 14





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